

$^{28}\text{P} \beta^+ \text{p decay}$     1996Og01, 1979Ho27

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 112, 1875 (2011)	30-Nov-2010

Parent:  $^{28}\text{P}$ : E=0;  $J^\pi=3^+$ ;  $T_{1/2}=270.3$  ms 5;  $Q(\beta^+\text{p})=14334$  3; % $\beta^+\text{p}$  decay=0.0013 4

**1996Og01:**  $^{28}\text{P}$  obtained from  $^{28}\text{Si}(\text{p},\text{n})$ , E=28 and 45 MeV;  $\Delta\text{E}-\text{E}$  telescope followed by an E detector; helium-jet recoil collection; measured delayed proton energies.

**1979Ho27:**  $^{28}\text{P}$  obtained from  $^{28}\text{Si}(\text{p},\text{n})^{28}\text{P}$ , E=20 MeV, 92.2% enriched  $^{28}\text{Si}$ ; three Si(Au) and one Ge(Li); measured  $E_\text{p}$ ,  $I_\text{p}$ ,  $E\gamma$ ,  $I\gamma$ ; deduced level energy, total branching of delayed protons.

 $^{27}\text{Al}$  Levels

E(level)	$J^\pi$	Comments
0	$5/2^+$	$J^\pi$ : From Adopted Level.

Delayed Protons ( $^{27}\text{Al}$ )

E(p) <sup>†</sup>	E( $^{27}\text{Al}$ )	I(p) <sup>‡‡</sup>	E( $^{28}\text{Si}$ )
469 <i>I</i>	0	3.1 5	12071
679 <i>I</i>	0	52.1	12289
828 <i>I</i>	0	3.1 5	12443
953 <i>I</i>	0	29.2 21	12573
1089 <i>I</i>	0	2.1 5	12714
1267 <i>I</i>	0	9.4 10	12899
1452 <i>4</i>	0	1.0 5	13091

<sup>†</sup> From 1996Og01. Intensity is in percent of the total delayed particle. Relative intensities of delayed particle are reported in 1996Og01.

<sup>‡</sup> For absolute intensity per 100 decays, multiply by  $1.3 \times 10^{-5}$  4.

$^{28}\text{P}$   $\beta^+$  p decay    1996Og01,1979Ho27Decay Scheme

I(p) Intensities: Relative I(p)

